19" TFT LCD SXGA monitor

190B4CS

- *19-inch color LCD monitor with excellent display performance*
- *Standard VGA analog input*
- *Embedded universal AC power supply*
- *Advanced AUTO adjustment optimizes picture quality*
- *Adjustable tilt and swivel function*
- *Adjustable viewing height*
- *sRGB compliant*

PHILIPS

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Technical Specifications

LCD panel

• Type	TFT LCD
• Screen size	19 inch / 48.26 cm
• Pixel pitch	0.294 x 0.294 mm
• LCD panel type	1280 x 1024 pixels, R.G.B vertical stripe Anti-glare polarizer, hard coated
• Effective viewing area	376.32 x 301.06 mm
• Display colors	16M colors

Scanning

• Vertical refresh rate	56~76 Hz
• Horizontal frequency	30~82 KHz

Video

• Video dot rate (Max.)	135 MHz
• Input impedance	
- video	75 ohm
- Sync	2K ohm
• Input signal levels	0.7 Vpp
• Sync input signal	Separate sync Composite sync Sync on green
• Sync polarities	Positive and negative
• Video interface	Analog (D_Sub) input

Optical characteristics

• Contrast ratio	500 (typ.)	
• Brightness	250 cd/m^2 (typ.)	
• Peak contrast angle	6 o'clock	
• White chromaticity	x: 0.283	y: 0.297 (at 9300°K)
	x: 0.313	y: 0.329 (at 6500°K)
• Viewing angle	Upper	85°(typ.)
(C/R >10)	Lower	85°(typ.)
	Left	85°(typ.)
	Right	85°(typ.)
• Response time	25ms (typ.)	
	(Tr 15ms, Tf 10ms)	

Resolution & preset modes

• Maximum	1280x1024 at 75Hz	
• Recommended	1280x1024 at 60Hz	
• 15 user definable modes		
• 15 factory preset modes:		
	H.freq (KHz)	V.freq (Hz)
640 x 350	31.5	70
720 x 400	31.5	70
640 x 480	31.5	60
640 x 480	35.0	67
640 x 480	37.5	75
800 x 600	35.2	56
800 x 600	37.9	60
800 x 600	46.9	75
832 x 624	49.7	75
1024 x 768	48.4	60
1024 x 768	60.0	75
1152 x 870	69.0	75
1152 x 900	71.8	76
1280 x 1024	63.9	60
1280 x 1024	80.0	75

(Interlace mode is not applicable)

Plug and play compatibility

- Display data channel DDC 2B (VESA)
- Microsoft Windows Me/2000 & XP compatible

Power management

Complies with EPA Energy Star and NUTEK specifications

• Typical operation	45W (typical)
• Sleep mode	1W

Low-emission characteristics

- Complies with TCO 03, MPRII and prEN50279 (so called MPRIII) specifications

Monitor controls and functions

• Front	Power on/off	- Tact Switch
	OK	- Tact Switch
	Auto	- Tact Switch
	Up/Down (Brightness)	- Tact Switch
	Left / Right	- Tact Switch
• LED indicator	Blue	power on
	Amber	power save/OFF mode
	Flashing Blue	new mode

Connections and cables

• Connections on monitor body	
- Video	15-pin D-sub (analog)
- Power	IEC/CEE-22 type male power inlet on monitor body
• Cables	D-Sub video cable, Power cord

Regulatory approvals

- TUV/GS, TUV-Ergo
- FCC-B, UL, CSA
- SEMKO
- prEN50279 Low Emission
- CE Mark
- NUTEK, Energy Star
- TCO '03

Physical specifications

• Dim. incl. base (WxHxD)	425x377x235 mm (in lowest position)
• Dim. excl. base (WxHxD)	425x360x65 mm
• Tilt / Swivel	-5°~30° / ± 175°
• Height adjustment range	70 mm
• Weight	7 Kg
• Power supply	100 – 240 VAC, 50/60 Hz
• Power consumption	45 W* (typ.)
• Temperature (operating)	+5°C to +35°C
• Temperature (Storage)	-20°C to +60°C
• Relative humidity	20% to 80%
• System MTBF	50K hrs (excluding CCFL 40K hrs)

* Resolution 1280x 1024, standard size, contrast max. brightness 50%, 9300°K, Full white pattern.

We recommend using 1280 x 1024 at 60Hz non-interlaced mode for the best picture quality
As an Energy Star partner, Philips has determined that this product meets the Energy Star guidelines for energy efficiency.
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